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**Motion vector detection apparatus - US Patent 5502492**

a **subblock motion vector** detector for detecting a **subblock motion vector** for each of the subblocks included in a panning block within the current frame; ...

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**Motion vector detection apparatus - US Patent 5502492**

The motion vector detecting apparatus comprises a **subblock motion vector** detector for detecting a **subblock motion vector** for each of the subblocks included ...

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**Motion vector detection apparatus - Patent 5502492**

means for storing the **subblock motion vector** at the time of the determined .... The motion vector detecting apparatus comprises a **subblock motion vector** ...

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**Gridlocked method and system for video motion compensation ...**

... for video motion compensation in which an overall interframe motion vector is divided into a relative block motion vector and a **subblock motion vector**.

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**Hierarchical motion search for H.264 variable-block-size motion ...**

The proposed fast scheme adjusts the search center and search pattern according to the **subblock motion-vector** distribution. ...

[link.aip.org/link/?OPEGAR/45/017002/1](http://link.aip.org/link/?OPEGAR/45/017002/1) - [Similar pages](#)

**Subblock matching-based conditional motion estimation with ...**

then there is no need to estimate **subblock motion vector**. If a block and its eight neighbor blocks all have null motion vectors ...

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D. **Subblock Motion Vector**s. The proposed 3D block matching algorithm significantly reduces the number of operations resulting in much lower ...

[ieeexplore.ieee.org/iel5/9366/29747/01354190.pdf?arnumber=1354190](http://ieeexplore.ieee.org/iel5/9366/29747/01354190.pdf?arnumber=1354190) - [Similar pages](#)

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**Motion vector detection apparatus - Patent 5502492**

a **subblock motion vector** detector for detecting a **subblock motion vector** for each of the ... means for storing the **subblock motion vector** at the time of the ...

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**EP735746 Thomson european software patent - Method and apparatus ...**

One example of **subblock motion vector** calculation is described in EP-A-94113494 in more detail. The advantage therefrom is that the subblock motion vectors ...

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[PDF] **Hierarchical motion search for H.264 variable-block-size motion ...**

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**subblock motion vector** or the predictive motion vector is ..... need to be adapted according to the **subblock motion-vector**. deviation DEV. ...

media.skku.ac.kr/publications/openpdf.php?fName=paper/IntJ/cwi\_spie2006jan.pdf -

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#### **Motion-compensated 3-D subband coding of video - all 6 versions »**

SJ Choi, JW Woods - Image Processing, IEEE Transactions on, 1999 - [ieeexplore.ieee.org](#)  
 ... **vector rate for motion vector field mv[i]**. The parameter thus corresponds to an optimal **quadtree** segmentation of the **motion vector** field at a given rate. ...

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#### **Quadtree-structured variable-size block-matching motion estimation with minimal error - all 4 versions »**

I Rhee, GR Martin, S Muthukrishnan, RA Packwood - Circuits and Systems for Video Technology, IEEE Transactions ..., 2000 - [ieeexplore.ieee.org](#)  
 ... In terms of **motion** estimation accuracy, it provides the best achievable performance of a **quad-tree** structured VSBM ... Suppose that a cov- ering **quadtree** has been ...

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#### **Efficient quadtree coding of images and video - all 4 versions »**

GJ Sullivan, RL Baker - Image Processing, IEEE Transactions on, 1994 - [ieeexplore.ieee.org](#)  
 ... We apply this theory to the design of a **motion** compensated interframe video coding system using a **quadtree** with **vector** quantization. ...

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#### **Rate-distortion optimized motion compensation for video compression using fixed or variable size ...**

GJ Sullivan, RL Baker - Global Telecommunications Conference, 1991. GLOBECOM'91. ..., 1991 - [ieeexplore.ieee.org](#)  
 ... 6) This allows the **motion vector** to be ... RD Optimized V-BMA Consider a variable size BMA and assume its block sizes are specified by a **quadtree** data structure [10 ...

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#### **Optimal quadtree for variable block size motion estimation - all 7 versions »**

J Lee - Proceedings of the IEEE International Conference on Image ..., 1995 - [doi.ieeecomputersociety.org](#)  
 ... this paper, we present a new approach to find the best **quadtree** for variable ... The desired balance of the bit allocation between the **motion vector** coding and the ...

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#### **Fast variable-size block motion estimation using merging procedure with an adaptive threshold - all 5 versions »**

YK Tu, JF Yang, YN Shen, MT Sun - Multimedia and Expo, 2003. ICME'03. Proceedings. 2003 ..., 2003 - [ieeexplore.ieee.org](#)  
 ... Neighboring blocks are then merged in a **quadtree** manner if they have at least one **vector** in common. In our work, we also use the **motion vectors** of smaller ...

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#### **Method and device for estimating and hierarchically coding the motion of sequences of images - all 3 versions »**

M Kerdranvat - US Patent 5,351,095, 1994 - Google Patents  
 ... levels, a 30 different field of **motion vector** corresponding to ... determine the final

field of **motion** suited to the construction of the "**quadtree**" coding tree ...

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**Motion estimation techniques for digital TV: a review and a new contribution - all 3 versions »**

F Dufaux, F Moscheni - Proceedings of the IEEE, 1995 - [ieeexplore.ieee.org](#)  
... models. Hereafter the formulation in terms of displacement is adopted, and the term **motion vector** should be understood accordingly. In ...

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**Apparatus and method for quadtree based variable block size motion estimation - all 4 versions »**

T Chiang, J Lee, YQ Zhang, Z Xiong - US Patent 6,084,908, 2000 - Google Patents  
... estimation; FIG. 8 illustrates the luminance bit, **motion vector** bit and **quadtree** bit results for VBS **motion** estimation; FIG. 9 illustrates ...

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**Quadtree Structured Region-Wise Motion Compensation for Video Compression - all 4 versions »**

J Zhang, MO Ahmad, MNS Swamy - IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS FOR VIDEO ... , 1999 - [ieeexplore.ieee.org](#)  
... **quadtree** hierarchy according to some specified criteria, while the combining process combines some of the partitioned regions that have the same **motion vector** ...

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**Interframe coding using two-stage variable block-size multiresolution motion estimation and wavelet ... - all 4 versions »**

S Kim, S Rhee, JG Jeon, KT Park - Circuits and Systems for Video Technology, IEEE Transactions ... , 1998 - [ieeexplore.ieee.org](#)  
... Besides, due to the locally adaptive mesh refinements, based on the **quadtree** structure, the more precise **motion vectors** can be estimated on moving edges, while ...

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**[PDF] Entropy criterion for optimal bit allocation between motion and prediction error information - all 8 versions »**

F Moscheni, F Dufaux, H Nicolas - Proc. SPIE's Conf. Visual Communications and Image ... , 1993 - [infoscience.epfl.ch](#)  
... a **quad-tree** decomposition. The **motion vectors** are initially estimated on a xed large size grid. Blocks for which the accuracy of the obtained **motion vector** is ...

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**Long-term memory motion-compensated prediction - all 15 versions »**

T Wiegand, X Zhang, B Girod - Circuits and Systems for Video Technology, IEEE Transactions ... , 1999 - [ieeexplore.ieee.org](#)  
... In [24], the entropy- constrained design of a complete **quad-tree** video codec is ... SSD as a distortion measure and the overall **motion vector** bit rate, including ...

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**An optimal quadtree-based motion estimation and motion-compensated interpolation scheme for video ... - all 9 versions »**

GM Schuster, AK Katsaggelos - Image Processing, IEEE Transactions on, 1998 - [ieeexplore.ieee.org](#)  
... **quadtree** (QT)- based **motion** estimator for video compression. It is optimal in the sense that for a given bit budget for encoding the displacement **vector** field ...

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**A new motion compensation method for image sequence coding using hierarchical grid interpolation - all 3 versions »**

CL Huang, CY Hsu - Circuits and Systems for Video Technology, IEEE Transactions ..., 1994 - [ieeexplore.ieee.org](#)

... refine the estimated displacement **vector** (DV) of ... Grid Interpolation (HGI) **motion** estimation method ... of three main procedures: **quadtree** representation, gradient ...

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**[PDF] On the Hierarchical Variable Block Size Motion Estimation Technique for Motion Sequence Coding - all 9 versions »**

JW Kim, SU Lee - Optical Engineering, 1994 - [netmedia.kjist.ac.kr](#)

... decision rules are used to form the VBS **motion** for binary tree and **quadtree** ... the **motion**

**vector** encoding efficiency as well as to reduce the number of **motion** ...

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**Partial encryption of compressed images and videos - all 8 versions »**

H Cheng, X Li - Signal Processing, IEEE Transactions on [see also Acoustics, ..., 2000 - [ieeexplore.ieee.org](#)

... The highest level of the **quadtree** is first examined, and ... frame and there is little or no **motion** in the ... on each pixel based on an additive noise **vector** that is ...

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**Image Registration Using Wavelet-Based Motion Model - all 7 versions »**

YT Wu, T Kanade, CC Li, J Cohn - International Journal of Computer Vision, 2000 - Springer

... tion are used, and is particularly useful for recovering the **motion vectors** caused by ... a prior model for the flow field and used the **quadtree motion** model for ...

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**Global motion estimator for motion video signal encoding - all 3 versions »**

N Chaddha - US Patent 5,844,613, 1998 - Google Patents

... **vector** quantization (ECVQ) and **quad-tree** representation as ... coding scheme based on the **quadtree** structure with ... built to provide good **motion vectors** over many ...

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**Motion estimation with quadtree splines - all 15 versions »**

R Szeliski, HY Shum - IEEE Transactions on Pattern Analysis and Machine ..., 1996 - [doi.ieeecomputersociety.org](#)

... We then use the hierarchical basis to smooth the residual **vector** **g** before ... Figure 4d shows an example of a **quadtree spline motion** estimate produced with ...

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